TDD #F-06-8704-40

# POTENTIAL HAZARDOUS WASTE SITE
# SITE INSPECTION REPORT

| REGION | SITE NUMBER (to be assigned by HQ) |
|---|---|
| VI | LAD981910656 |

**GENERAL INSTRUCTIONS:** Complete Sections I and III through XV of this form as completely as possible. Then use the information on this form to develop a Tentative Disposition *(Section II)*. File this form in its entirety in the regional Hazardous Waste Log File. Be sure to include all appropriate Supplemental Reports in the file. Submit a copy of the forms to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force *(EN-335)*; 401 M St., SW; Washington, DC 20460.

## I. SITE IDENTIFICATION

A. SITE NAME: Amoco #1 Prod Co

B. STREET (or other identifier): 0.7 mi. North of LA Hwy. 390 and 0.3 mi. West of Hwy. 27

C. CITY: Hackberry

D. STATE: LA

E. ZIP CODE: 70645

F. COUNTY NAME: Cameron

G. SITE OPERATOR INFORMATION

1. NAME: Hackberry Production Company

2. TELEPHONE NUMBER: (318) 896-7393

3. STREET: P.O. Box 91808

4. CITY: Lafayette

5. STATE: LA

6. ZIP CODE: 70502

H. REALTY OWNER INFORMATION *(if different from operator of site)*

1. NAME: Chevron, U.S.A., Inc. and Others

2. TELEPHONE NUMBER: (318)269-8715

3. CITY: Lafayette

4. STATE: LA

5. ZIP CODE: 70505

I. SITE DESCRIPTION: The site is a petroleum production facility with 18 storage tanks, 7 separators, and 3 surface impoundments for estuary discharge.

SUPERFUND FILE

J. TYPE OF OWNERSHIP

☐ 1. FEDERAL ☐ 2. STATE ☐ 3. COUNTY ☐ 4. MUNICIPAL ☒ 5. PRIVATE

JUL 17 1992

## II. TENTATIVE DISPOSITION *(complete this section last)*

A. ESTIMATE DATE OF TENTATIVE DISPOSITION *(mo., day, & yr.)*:

B. APPARENT SERIOUSNESS OF PROBLEM

☐ 1. HIGH ☐ 2. MEDIUM ☐ 3. LOW ☒ 4. NONE

REORGANIZED

C. PREPARER INFORMATION

1. NAME: Jeff Robinson

2. TELEPHONE NUMBER: (214) 744-1641

3. DATE *(mo., day, & yr.)*: May 27, 1986 87

## III. INSPECTION INFORMATION

A. PRINCIPAL INSPECTOR INFORMATION

1. NAME: Jeff Robinson

2. TITLE: FIT - ICF Staff Geologist

3. ORGANIZATION: ICF Technology, 1509 Main St., Suite 900, Dallas, TX 75201

4. TELEPHONE NO. *(area code & no.)*: (214) 744-1641

B. INSPECTION PARTICIPANTS

| 1. NAME | 2. ORGANIZATION | 3. TELEPHONE NO. |
|---|---|---|
| Steve Cowan | ICF Technology, 1509 Main Street, Suite 900 Dallas, TX 75201 | (214) 1641 |
| | | |
| | | |

C. SITE REPRESENTATIVES INTERVIEWED *(corporate officials, workers, residents)*

| 1. NAME | 2. TITLE & TELEPHONE NO. | 3. ADDRESS |
|---|---|---|
| Tom Moore | Field Foreman (318) 896-7393 | Hackberry Production Co., P.O. Box 91808 Lafayette, LA 70502 |
| Ken Rueh | E.S.F. Coordinator (318) 269-8724 | Chevron U.S.A., Inc., P.O. Box 51743 Lafayette, LA 70505 |
| Tom Cloninger | Compliance Specialist (318) 269-8715 | Chevron U.S.A., inc., P.O. Box 51743 Lafayette, LA 70505 |
| | | |
| | | |
| | | |

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## III. INSPECTION INFORMATION (continued)

D. GENERATOR INFORMATION (sources of waste)

| 1. NAME | 2. TELEPHONE NO. | 3. ADDRESS | 4. WASTE TYPE GENERATED |
|---|---|---|---|
| Hackberry Production Co. | (318) 893-7393 | P.O. Box 81808 Lafayette, LA 70502 | Petroleum & Salt Water |
| | | | |
| | | | |

E. TRANSPORTER/HAULER INFORMATION

| 1. NAME | 2. TELEPHONE NO. | 3. ADDRESS | 4. WASTE TYPE TRANSPORTED |
|---|---|---|---|
| N/A | | | |
| | | | |
| | | | |

F. IF WASTE IS PROCESSED ON SITE AND ALSO SHIPPED TO OTHER SITES, IDENTIFY OFF-SITE FACILITIES USED FOR DISPOSAL.

| 1. NAME | 2. TELEPHONE NO. | 3. ADDRESS |
|---|---|---|
| N/A | | |
| | | |
| | | |

| G. DATE OF INSPECTION (mo., day, & yr.) | H. TIME OF INSPECTION | I. ACCESS GAINED BY: (credentials must be shown in all cases) |
|---|---|---|
| May 14, 1987 | 0935 to 1015 hr. | [x] 1. PERMISSION [ ] 2. WARRANT |

J. WEATHER (describe)

Weather was partly cloudy with no wind and about 85° F.

## IV. SAMPLING INFORMATION

A. Mark 'X' for the types of samples taken and indicate where they have been sent e.g., regional lab, other EPA lab, contractor, etc. and estimate when the results will be available.

| 1. SAMPLE TYPE | 2. SAMPLE TAKEN (mark 'X') | 3. SAMPLE SENT TO: | 4. DATE RESULTS AVAILABLE |
|---|---|---|---|
| a. GROUNDWATER | | | |
| b. SURFACE WATER | | | |
| c. WASTE | | | |
| d. AIR | | | |
| e. RUNOFF | | | |
| f. SPILL | | | |
| g. SOIL | | | |
| h. VEGETATION | | | |
| i. OTHER (specify) | x | No samples were taken. | |

B. FIELD MEASUREMENTS TAKEN (e.g., radioactivity, explosivity, PH, etc.)

| 1. TYPE | 2. LOCATION OF MEASUREMENTS | 3. RESULTS |
|---|---|---|
| No field | measurements were taken. | |
| | | |
| | | |
| | | |



Continue On Page 3

Continued From Page 2

## IV. SAMPLING INFORMATION (continued)

C. PHOTOS

1. TYPE OF PHOTOS: [X] a. GROUND [ ] b. AERIAL

2. PHOTOS IN CUSTODY OF: E.P.A. Region VI (see attached)

D. SITE MAPPED?

[X] YES. SPECIFY LOCATION OF MAPS: U.S.G.S. topographic map and site sketch attached.

E. COORDINATES

1. LATITUDE (deg.-min.-sec.): 29° 59' 48" N

2. LONGITUDE (deg.-min.-sec.): 93° 22' 27" W

## V. SITE INFORMATION

A. SITE STATUS

[X] 1. ACTIVE (Those inductrial or municipal sites which are being used for waste treatment, storage, or disposal on a continuing basis, even if infrequently.)

[ ] 2. INACTIVE (Those sites which no longer receive wastes.)

[ ] 3. OTHER (specify): _____ (Those sites that include such incidents like "midnight dumping" where no regular or continuing use of the site for waste disposal has occurred.)

B. IS GENERATOR ON SITE?

[ ] 1. NO [X] 2. YES (specify generator's four-digit SIC Code): oil production facilities do not have an SIC code.

C. AREA OF SITE (in acres): 0.6

D. ARE THERE BUILDINGS ON THE SITE?

[X] 1. NO [ ] 2. YES (specify): _____

## VI. CHARACTERIZATION OF SITE ACTIVITY

Indicate the major site activity(ies) and details relating to each activity by marking 'X' in the appropriate boxes.

| | A. TRANSPORTER | | B. STORER | | C. TREATER | | D. DISPOSER |
|---|---|---|---|---|---|---|---|
| | 1. RAIL | | 1. PILE | | 1. FILTRATION | | 1. LANDFILL |
| | 2. SHIP | | 2. SURFACE IMPOUNDMENT | | 2. INCINERATION | | 2. LANDFARM |
| | 3. BARGE | | 3. DRUMS | | 3. VOLUME REDUCTION | | 3. OPEN DUMP |
| | 4. TRUCK | X | 4. TANK, ABOVE GROUND | | 4. RECYCLING/RECOVERY | X | 4. SURFACE IMPOUNDMENT |
| | 5. PIPELINE | | 5. TANK, BELOW GROUND | X | 5. CHEM./PHYS./TREATMENT | | 5. MIDNIGHT DUMPING |
| | 6. OTHER (specify): | | 6. OTHER (specify): | | 6. BIOLOGICAL TREATMENT | | 6. INCINERATION |
| | | | | | 7. WASTE OIL REPROCESSING | | 7. UNDERGROUND INJECTION |
| | | | | | 8. SOLVENT RECOVERY | | 8. OTHER (specify): |
| | | | | | 9. OTHER (specify): | | |

E. SUPPLEMENTAL REPORTS: If the site falls within any of the categories listed below, Supplemental Reports must be completed. Indicate which Supplemental Reports you have filled out and attached to this for..

[X] 1. STORAGE [ ] 2. INCINERATION [ ] 3. LANDFILL [X] 4. SURFACE IMPOUNDMENT [ ] 5. DEEP WELL

[ ] 6. CHEM/BIO/PHYS TREATMENT [ ] 7. LANDFARM [ ] 8. OPEN DUMP [ ] 9. TRANSPORTER [ ] 10. RECYCLOR/RECLAIMER

## VII. WASTE RELATED INFORMATION

A. WASTE TYPE

[X] 1. LIQUID [ ] 2. SOLID [ ] 3. SLUDGE [ ] 4. GAS

B. WASTE CHARACTERISTICS

[ ] 1. CORROSIVE [X] 2. IGNITABLE [ ] 3. RADIOACTIVE [ ] 4. HIGHLY VOLATILE

[X] 5. TOXIC [ ] 6. REACTIVE [ ] 7. INERT [X] 8. FLAMMABLE

[ ] 9. OTHER (specify):

C. WASTE CATEGORIES

1. Are records of wastes available? Specify items such as manifests, inventories, etc. below.

Waste records are not available.



Continue On Reverse

Continued From Front

## VII. WASTE RELATED INFORMATION (continued)

2. Estimate the amount (specify unit of measure) of waste by category, mark 'X' to indicate which wastes are present.

| a. SLUDGE | b. OIL | c. SOLVENTS | d. CHEMICALS | e. SOLIDS | f. OTHER |
|---|---|---|---|---|---|
| AMOUNT: None | AMOUNT: Unknown | AMOUNT: None | AMOUNT: None | AMOUNT: None | AMOUNT: Unknown |
| UNIT OF MEASURE: | UNIT OF MEASURE: | UNIT OF MEASURE: | UNIT OF MEASURE: | UNIT OF MEASURE: | UNIT OF MEASURE: |
| X (1) PAINT, PIGMENTS | X (1) OILY WASTES | X (1) HALOGENATED SOLVENTS | X (1) ACIDS | X (1) FLYASH | X (1) LABORATORY PHARMACEUT. |
| (2) METALS SLUDGES | (2) OTHER (specify): | (2) NON-HALOGNTC. SOLVENTS | (2) PICKLING LIQUORS | (2) ASBESTOS | (2) HOSPITAL |
| (3) POTW | | (3) OTHER (specify): | (3) CAUSTICS | (3) MILLING/MINE TAILINGS | (3) RADIOACTIVE |
| (4) ALUMINUM SLUDGE | | | (4) PESTICIDES | (4) FERROUS SMELTING WASTES | (4) MUNICIPAL |
| (5) OTHER (specify): | | | (5) DYES/INKS | (5) NON-FERROUS SMLTG. WASTES | X (5) OTHER (specify): Salt Water |
| | | | (6) CYANIDE | (6) OTHER (specify): | |
| | | | (7) PHENOLS | | |
| | | | (8) HALOGENS | | |
| | | | (9) PCB | | |
| | | | (10) METALS | | |
| | | | (11) OTHER (specify): | | |

D. LIST SUBSTANCES OF GREATEST CONCERN WHICH ARE ON THE SITE (place in descending order of hazard)

| 1. SUBSTANCE | 2. FORM (mark 'X') a. SOLID | b. LIQ. | c. VAPOR | 3. TOXICITY (mark 'X') a. HIGH | b. MED. | c. LOW | d. NONE | 4. CAS NUMBER | 5. AMOUNT | 6. UNIT |
|---|---|---|---|---|---|---|---|---|---|---|
| Petroleum | | X | | | | | | | Unknown | |
| Salt Water | | X | | | | | | | Unknown | |
| | | | | | | | | | | |
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## VIII. HAZARD DESCRIPTION

FIELD EVALUATION HAZARD DESCRIPTION: Place an 'X' in the box to indicate that the listed hazard exists. Describe the hazard in the space provided.

X A. HUMAN HEALTH HAZARDS

Nearest residence to the Amoco #1 site is approximately 2,400 ft. or.45 miles and other residences are sparsely scattered around the facility.



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## VIII. HAZARD DESCRIPTION (continued)

☐ B. NON-WORKER INJURY/EXPOSURE

☐ C. WORKER INJURY/EXPOSURE

☐ D. CONTAMINATION OF WATER SUPPLY

☐ E. CONTAMINATION OF FOOD CHAIN

☐ F. CONTAMINATION OF GROUND WATER

☒ G. CONTAMINATION OF SURFACE WATER

Surface water may have a significantly higher concentration of sodium chloride since salt water is freely released to the surface from the oil and salt water separation process. The process uses a tiered system of pits in which salt water settles and drains into the next lower pit. After reaching the third and final pit, salt water is pumped freely onto the land surface into a salt flat that eventually drains into a salt water bayou called Black Lake Bayou.


Continue On Reverse

*Continued From Front*

## VIII. HAZARD DESCRIPTION *(continued)*

[X] H. DAMAGE TO FLORA/FAUNA

There is a significant lack of vegetation in the drainage ways that lead to the salt water disposal flats. The damage is most likely due to the release of salt water from the oil and water separation process.

[ ] I. FISH KILL

[ ] J. CONTAMINATION OF AIR

[ ] K. NOTICEABLE ODORS

[ ] L. CONTAMINATION OF SOIL

[ ] M. PROPERTY DAMAGE

Continued From Page 6

## VIII. HAZARD DESCRIPTION (continued)

☐ N. FIRE OR EXPLOSION

☒ O. SPILLS/LEAKING CONTAINERS/RUNOFF/STANDING LIQUID

Standing liquid was observed at the site. The liquid was mixed with oil and salt water. Oil may be spilled during oil transport processes and piping around the storage tanks may also leak at the pipe joints. Salt water is released to the surface periodically from oil and water separation processes.

☐ P. SEWER, STORM DRAIN PROBLEMS

☐ Q. EROSION PROBLEMS

☒ R. INADEQUATE SECURITY

The immediate facility is not fenced. The field foreman is responsible for knowing who is on site. The facility is readily accessible from Hwy. 27 but the gates are posted. Cattle graze freely in the area.

☐ S. INCOMPATIBLE WASTES

## VIII. HAZARD DESCRIPTION (continued)

☐ T. MIDNIGHT DUMPING

☒ U. OTHER (specify): Narrative

The Amoco #1 site is an oil production facility in Hackberry, LA. The site is operated by the Sutton Joint Account which is also known as the Hackberry production company. The site consisted of 18 storage tanks, 7 separators, and 3 estuary discharge ponds for oil and water. Tom Moore of Hackberry Production Company and Tom Cloninger along with Ken Rueh of Chevron U.S.A. accompanied FIT on site.

The site had several fee name owners but Chevron U.S.A., Inc. was representing their interest.

Upon entry on the site, cattle were found to be grazing inside the diking on green grass. Cattle crossings were obvious across the diking in some areas. The diking in the southwest corner of the facility was eroded and other breaches were found due to cattle crossing the diking. Drainage pathways from the area of bad diking were eroded and due to salt water disposal onto the surface in this area there is no significant vegetation in the drainage pathway. Diking at the site had approximately 1 foot of freeboard and standing liquids that are most likely oil and salt water were found. Salt residue was found along the edges of the diking at the contact with the standing liquid. Salt residue was common throughout the site.

(See Attachment A)

## IX. POPULATION DIRECTLY AFFECTED BY SITE

| A. LOCATION OF POPULATION | B. APPROX. NO. OF PEOPLE AFFECTED | C. APPROX. NO. OF PEOPLE AFFECTED WITHIN UNIT AREA | D. APPROX. NO. OF BUILDINGS AFFECTED | E. DISTANCE TO SITE (specify units) |
|---|---|---|---|---|
| 1. IN RESIDENTIAL AREAS | 2000 | 2000 | 839 | < 1 mile |
| 2. IN COMMERCIAL OR INDUSTRIAL AREAS | 0 | 0 | 0 | 0 |
| 3. IN PUBLICLY TRAVELLED AREAS | 0 | 0 | 0 | 0 |
| 4. PUBLIC USE AREAS (parks, schools, etc.) | 300 | 300 | 7 | < 1 mile |

## X. WATER AND HYDROLOGICAL DATA

| A. DEPTH TO GROUNDWATER (specify unit) | B. DIRECTION OF FLOW | C. GROUNDWATER USE IN VICINITY |
|---|---|---|
| 500 ft. sand of Chicot aquifer | West to Southwest | Public water supply |
| **D. POTENTIAL YIELD OF AQUIFER** | **E. DISTANCE TO DRINKING WATER SUPPLY (specify unit of measure)** | **F. DIRECTION TO DRINKING WATER SUPPLY** |
| 979 gallons per minute | Approx. 4000 ft. | Southeast |

G. TYPE OF DRINKING WATER SUPPLY

☐ 1. NON-COMMUNITY < 15 CONNECTIONS*  ☒ 2. COMMUNITY (specify town): Hackberry, LA, Holly Beach, LA > 15 CONNECTIONS

☐ 3. SURFACE WATER  ☒ 4. WELL


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## X. WATER AND HYDROLOGICAL DATA (continued)

H. LIST ALL DRINKING WATER WELLS WITHIN A 1 4 MILE RADIUS OF SITE

| 1. WELL | 2. DEPTH (specify unit) | 3. LOCATION proximity to population buildings) | 4. NON-COMMUNITY (mark 'X') | 5. COMMUNITY (mark 'X') |
|---|---|---|---|---|
| | | No drinking water wells are known within ¼ mi. radius of site. | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

I. RECEIVING WATER

1. NAME A tributary of the Black Lake Bayou

☐ 2. SEWERS ☒ 3. STREAMS/RIVERS

☐ 4. LAKE/RESERVOIR ☐ 5. OTHER (specify):

6. SPECIFY USE AND CLASSIFICATION OF RECEIVING WATERS

The tributary is used as a salt water disposal area for the West Hackberry oil field.

## XI. SOIL AND VEGITATION DATA

LOCATION OF SITE IS IN:

☐ A. KNOWN FAULT ZONE ☐ B. KARST ZONE ☐ C. 100 YEAR FLOOD PLAIN ☐ D. WETLAND

☐ E. A REGULATED FLOODWAY ☐ F. CRITICAL HABITAT ☐ G. RECHARGE ZONE OR SOLE SOURCE AQUIFER

## XII. TYPE OF GEOLOGICAL MATERIAL OBSERVED

Mark 'X' to indicate the type(s) of geological material observed and specify where necessary, the component parts.

| 'X' | A. OVERBURDEN | 'X' | B. BEDROCK (specify below) | 'X' | C. OTHER (specify below) |
|---|---|---|---|---|---|
| X | 1. SAND | | | | |
| X | 2. CLAY | | | | |
| X | 3. GRAVEL | | | | |

## XIII. SOIL PERMEABILITY

☐ A. UNKNOWN ☐ B. VERY HIGH (100,000 to 1000 cm/sec.) ☐ C. HIGH (1000 to 10 cm/sec.)

☐ D. MODERATE (10 to .1 cm/sec.) ☒ E. LOW (.1 to .001 cm/sec.) ☐ F. VERY LOW (.001 to .00001 cm/sec.)

G. RECHARGE AREA

☐ 1. YES ☒ 2. NO 3. COMMENTS:

H. DISCHARGE AREA

☐ 1. YES ☒ 2. NO 3. COMMENTS:

I. SLOPE

| 1. ESTIMATE % OF SLOPE | 2. SPECIFY DIRECTION OF SLOPE, CONDITION OF SLOPE, ETC. |
|---|---|
| 1% | Slope is to the west and condition is good. |

J. OTHER GEOLOGICAL DATA

Quaternary deposits are found on the surface and rise only a few feet above sea level. These deposits are generally sands, gravel, and clays which were deposited in deltaic sequences. The resulting geologic arrangement are beds of alternating sands and clays. Groundwater for public supply is in the '500 ft. sands' of the Chicot aquifer which may be classified as a sole source aquifer in the future.



Continue On Reverse

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## XIV. PERMIT INFORMATION

ist all applicable permits held by the site and provide the related information.

| A. PERMIT TYPE (e.g., RCRA, State, NPDES, etc.) | B. ISSUING AGENCY | C. PERMIT NUMBER | D. DATE ISSUED (mo., day, & yr.) | E. EXPIRATION DATE (mo., day, & yr.) | F. IN COMPLIANCE (mark 'X') | | |
|---|---|---|---|---|---|---|---|
| | | | | | 1. YES | 2. NO | 3. UNKNOWN |
| Unknown | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

## XV. PAST REGULATORY OR ENFORCEMENT ACTIONS

[X] NONE [ ] YES (summarize in this space)

**NOTE:** Based on the information in Sections III through XV, fill out the Tentative Disposition *(Section II)* information on the first page of this form.

ATTACHMENT A

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT SUPPLEMENT SHEET

Instruction - This sheet is provided to give additional information in explanation of a question on the form T2070-3.

| Corresponding number on form | Additional Remark and/or Explanation |
|---|---|
| VIII, U. | The Amoco #1 site also has an estuary discharge system. Mr. Tom Moore of the Hackberry Production Company said that the Department of Natural Resources Office of Conservation had recommended the system that is in place. The system processes the salt water pumped out of the subsurface for eventual disposal. The process at this site consists of three pits which the water moves through until the salt water can finally be disposed of in salt water flats that eventually drain into the Black Lake Bayou, which is a salt water bayou below the Intracoastal Waterway. The first pit receives salt water and residual oil from the separation process. In this pit the salt water separates from the majority of the oil and settles to the bottom where it then drains into a lower second pit. In the second pit any remaining oil is separated from the salt water which flows into a lower and larger third pit. The third pit contains all salt water that is then pumped into the salt water flats where no vegetation grows. The freeboard on these pits is about one foot and oil that is left over in the first two pits is pumped out every three or four months by a vacuum company for transport to a refinery.<br>The tanks and gunbarrel separators were in generally good condition at the site. Some leakage of oil and salt water may take place from the piping of the facility. The diking around the tank battery and estuary discharge ponds could be improved to insure the containment of any leakage of oil or salt water. Depending on state or EPA regulations that deal with oil production facilities, a liner should most likely be placed in the estuary discharge ponds. The primary problem in the area seems to be salt water discharged onto the surface. This has been a common practice for over 50 years and is the probable cause for the lack of vegetation in the drainage ways. Although the salt water does flow into a salt water bayou, a closed salt water injection system is an alternative solution.<br>Mr. Tom Moore of the Hackberry Production Company said that money is tight in their operation and that they fix problems as inexpensively as possible. He also said that people from the Department of Natural Resources Office of Conservation make inspections of their operations and make recommendations.<br>The Chicot aquifer is the primary aquifer used in the area. The Chicot aquifer is a quatenary aquifer that supplies Southwestern Louisiana with most of its water from '200 foot,' '500 foot,' and '700 foot' sands. The '500 foot' sands supply water to Hackberry, LA, which also supplies Holly Beach, LA with water. The sodium chloride content in the Chicot aquifer around the Hackberry area is relatively low, but closer to the coast the water is unpotable.<br>Based on the FIT inspection on May 14, 1987 no further FIT action is needed; however, diking at the facility may be inadequate, and the estuary discharge system of salt water brines may also be inadequate since salt water is freely released onto the ground surface in the final stages of the process. |

# STORAGE FACILITIES SITE INSPECTION REPORT
(Supplemental Report)

**INSTRUCTION**
Answer and Explain as Necessary.

1. STORAGE AREA HAS CONTINUOUS IMPERVIOUS BASE
[X] YES [ ] NO

2. STORAGE AREA HAS A CONFINEMENT STRUCTURE
[X] YES [ ] NO

3. EVIDENCE OF LEAKAGE/OVERFLOW *(If "Yes", document where and how much runoff is overflowing or leaking from containment)*
[X] YES [ ] NO
Diking has eroded in the southwest corner of the facility. Diking in other areas of the facility have also eroded. Some leakage of oil and salt water has taken place (photos 1 through 7).

4. ESTIMATE TYPE AND NUMBER OF BARRELS/CONTAINERS
18 oil storage tanks.

5. GLASS OR PLASTIC STORAGE CONTAINERS USED
[ ] YES [X] NO

6. ESTIMATE NUMBER AND CAPACITY OF STORAGE TANKS
18 oil storage tanks with a capacity of approximately 8,000 gallons each.

7. NOTE LABELING ON CONTAINERS
There are no containers with labeling since they are oil storage tanks.

8. EVIDENCE OF LEAKAGE CORROSION OR BULGING OF BARRELS/CONTAINERS/STORAGE TANKS *(If "Yes", document evidence. Describe location and extent of damage. Take PHOTOGRAPHS)*
[ ] YES [X] NO

9. DIRECT VENTING OF STORAGE TANKS
[ ] YES [X] NO

10. CONTAINERS HOLDING INCOMPATIBLE SUBSTANCES *(If "Yes", document evidence. Describe location and identity of hazardous waste. Take PHOTOGRAPHS.)*
[ ] YES [X] NO

11. INCOMPATIBLE SUBSTANCES STORED IN CLOSE PROXIMITY *(If "Yes", document evidence. Describe location and identity of hazardous waste. Take PHOTOGRAPHS.)*
[ ] YES [X] NO

12. ADEQUATE CONTAINER WASHING AND REUSE PRACTICES
[X] YES [ ] NO

13. ADEQUATE PRACTICES FOR DISPOSAL OF EMPTY STORAGE CONTAINERS
[X] YES [ ] NO

**SURFACE IMP( )MENTS SITE INSPECTION REPORT**
*(Supplemental Report)*

**INSTRUCTION**
**Answer and Explain as Necessary.**

**1. TYPE OF IMPOUNDMENT**
Oil and salt water brine drainage or settling pits.

**2. STABILITY/CONDITION OF EMBANKMENTS**
Fair

**3. EVIDENCE OF SITE INSTABILITY** *(Erosion, Settling, Sink Holes, etc.)*
☒ YES ☐ NO Erosion of diking

**4. EVIDENCE OF DISPOSAL OF IGNITABLE OR REACTIVE WASTE**
☒ YES ☐ NO Petroleum

**5. ONLY COMPATIBLE WASTES ARE STORED OR DISPOSED OF IN THE IMPOUNDMENT**
☒ YES ☐ NO

**6. RECORDS CHECKED FOR CONTENTS AND LOCATION OF EACH SURFACE IMPOUNDMENT**
☐ YES ☒ NO

**7. IMPOUNDMENT HAS LINER SYSTEM**
☐ YES ☒ NO

**7a. INTEGRITY OF LINER SYSTEM CHECKED**
☐ YES ☒ NO

**7b. FINDINGS**
No liner was observed.

**8. SOIL STRUCTURE AND SUBSTRUCTURE**
Structureless silty to sandy clay loam.

**9. MONITORING WELLS**
☐ YES ☒ NO

**10. LENGTH, WIDTH, AND DEPTH**
LENGTH 12 ft. WIDTH 12 ft. DEPTH 2 ft.

**11. CALCULATED VOLUMETRIC CAPACITY**
(Est.) 288 $ft^3$ or 2,154 gallons

**12. PERCENT OF CAPACITY REMAINING**
(Est.) 72 $ft^3$ or 539 gallons = 25%

**13. ESTIMATE FREEBOARD**
1.0 ft.

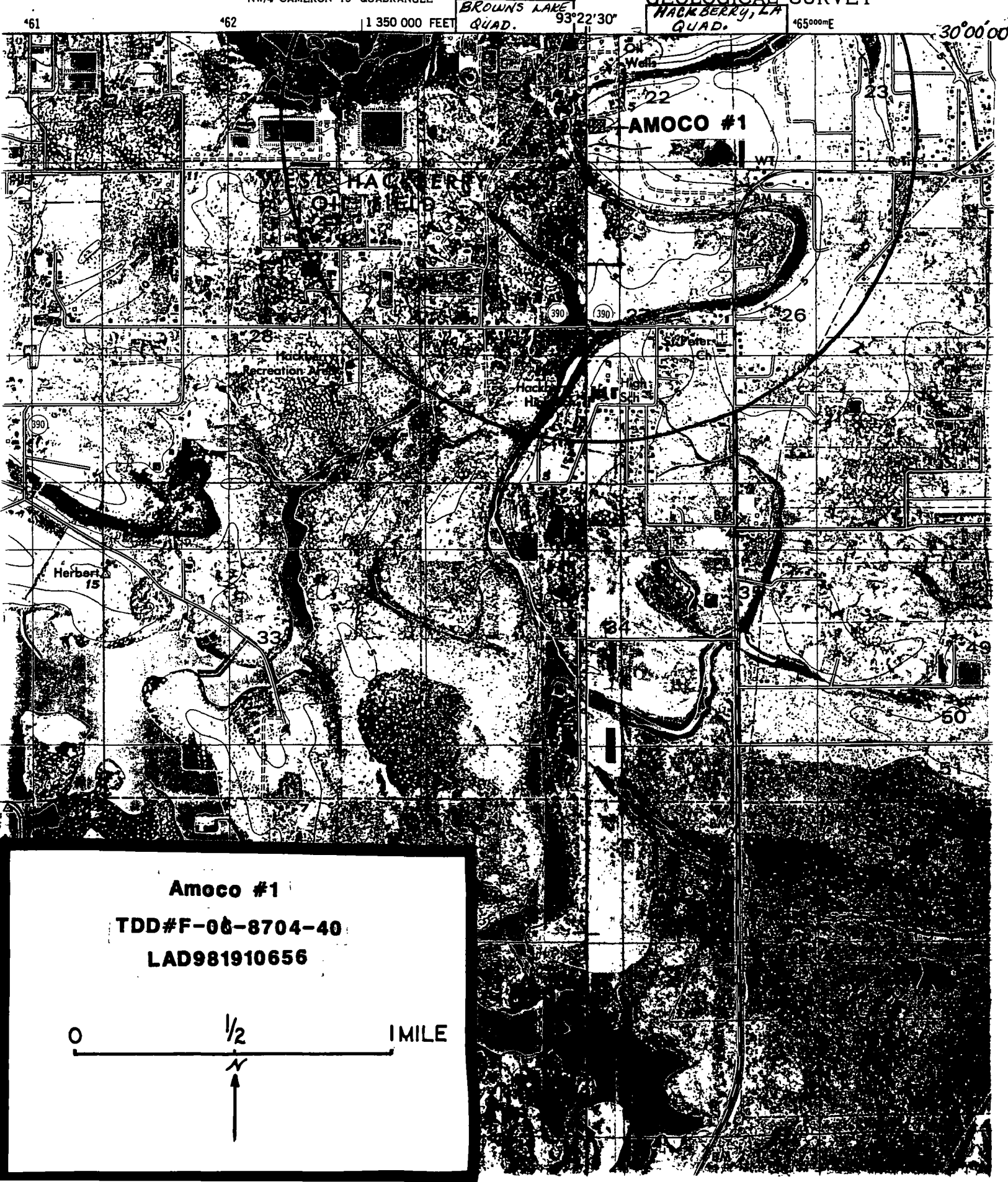
**14. SOLIDS DEPOSITION**
☐ YES ☒ NO

**15. DREDGING DISPOSAL METHOD**
No method is used.

**16. OTHER EQUIPMENT**
The surface impoundments are in a tiered system where the salt water settles out and drains from one pit to another until the salt water can finally be disposed of in the salt water flats. This is a common practice in the West Hackberry Oil Field and it is reported to be approved by the Louisiana Department of Natural Resources Office of Conservation.

BROWNS LAK. QUADRANGLE
LOUISIANA–CAMERON PARISH
7.5 MINUTE SERIES ORTHOPHOTOMAP (TOPOGRAPHIC)
NW/4 CAMERON 15' QUADRANGLE

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY




**Amoco #1**

**TDD#F-06-8704-40**

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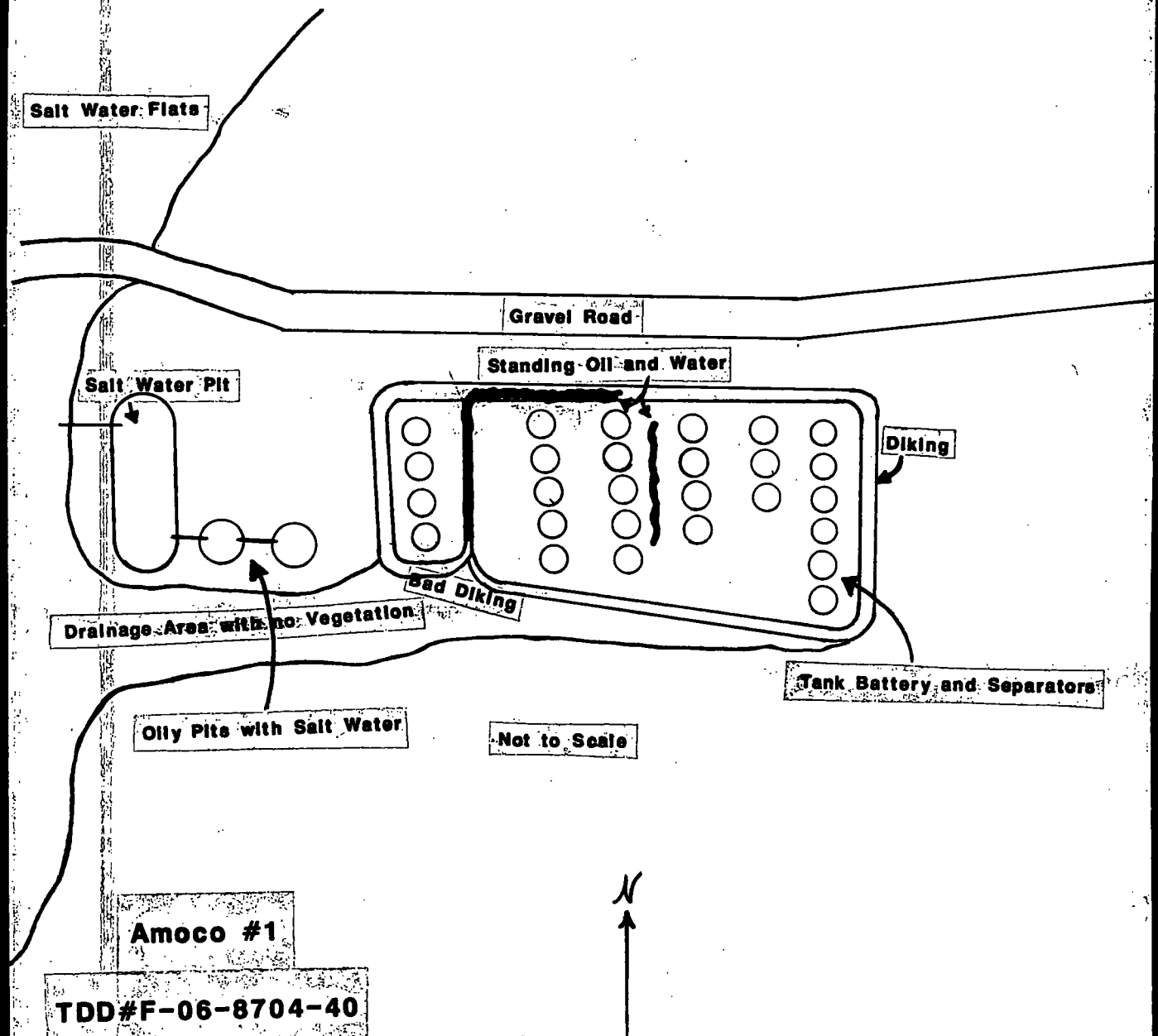
# SITE SKETCH

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